

25c



May 27, 1967

VOL. 91 NO. 21

Pages 489-512

# SCIENCE NEWS

SCIENCE NEWS LETTER<sup>®</sup>

THE WEEKLY SUMMARY OF CURRENT SCIENCE



Water  
International  
P. 502

A SCIENCE SERVICE PUBLICATION

E. G. Sherburne Jr., Editor

Watson Davis, Director Emeritus, Editor, 1922-1966

Warren Kornberg, Managing Editor

Frank Sartwell, News Editor

## DEPARTMENTS

### Aerospace:

Jonathan Eberhart

### Earth and Environment:

John Ludwigson

### Life Sciences:

Barbara J. Culliton

### Medicine:

Faye Marley

### Physical Sciences and Astronomy:

Ann Ewing

### Physical Sciences and Technology:

Carl Behrens

### Social Sciences:

Patricia McBroom

### Contributing Writer:

Barbara Tufty

### New Ideas and Gadgets:

Ruby Yoshioka

### Production Editor:

Marilyn Raleigh

### Copy Desk:

Nadine Clement

### Assistant:

Karen Turner

### Books:

Margit Friedrich

### Advertising Director:

Louis D. Young

### Circulation Manager:

Marcia Nelson

## SCIENCE SERVICE

The Institution for the Popularization of Science  
organized 1921 as a non-profit corporation

Board of Trustees—Nominated by the American Association for the Advancement of Science: Athelstan F. Spilhaus, University of Minnesota; Wallace R. Brode,\*\*\* Washington, D.C.; Bowen C. Dees, University of Arizona. Nominated by the National Academy of Sciences: Henry Allen Moe, The Clark Foundation; Harlow Shapley, Harvard College Observatory; Allen V. Astin, National Bureau of Standards. Nominated by the National Research Council: Glenn T. Seaborg,\* U.S. Atomic Energy Commission; Leonard Carmichael, National Geographic Society; John R. Whinnery, University of California, Berkeley. Nominated by the Journalistic Profession: O. W. Riegel, \*\*\*\*Washington and Lee University; Gordon B. Fister, Call-Chronicle Newspapers; Eugene Patterson, Atlanta Constitution. Nominated by the Scripps Estate: John Troan, Pittsburgh Press; Ludwell Denny, Scripps-Howard Newspapers; Edward W. Scripps II,\*\* Edward W. Scripps Trust. \* President, \*\* Vice President, \*\*\* Treasurer, \*\*\*\* Secretary.

Director: E. G. Sherburne Jr.

Assistant Director: Dorothy Schriver.

Staff: Science Youth Division: Joseph H. Kraus, Lloyd Ulmer. Photography: Fremont Davis. Syndicate Sales: Forrest L. Snakenberg.

Copyright © 1967 by Science Service, Inc. Reproduction of any portion of SCIENCE NEWS is strictly prohibited.



# SCIENCE NEWS . . .

Vol. 91 May 27, 1967 No. 21

## . . . OF THE WEEK

- 493 East-West psychiatry; a happening in Chicago
- 494 The Senate takes another look at drug prices
- 495 Patent reform bill will not pass this session  
NASA's program to produce Ph.D.'s
- 496 Milky Way: an old-timer among galaxies  
Tropical marine laboratory searches for site  
Lunar Orbiter 4 swings in polar orbit

## . . . FROM ABROAD

- 497 Induced migraines in Australia
- 510 The brain drain: a bargaining point in Britain  
Ancient remains in Canada and Australia  
Smog from a dry lake in Mexico

## . . . IN SCIENCE FIELDS

- A Man and His Science 498 Building on Pavlov
- Orbital Astronomy 499 OAO gets a new look
- Water for Peace 502 Water: an international concern
- Ultraviolet Astronomy 504 New window to heavens
- Astronomy 506 Bright planets remain in view

## DEPARTMENTS

- |     |                                |     |                       |
|-----|--------------------------------|-----|-----------------------|
| 508 | Books of the Week              | 492 | Nature Note           |
| 501 | Earth and Environment<br>Notes | 511 | New Ideas and Gadgets |
|     |                                | 509 | Patents               |
| 492 | Letters to the Editor          | 490 | Social Sciences Notes |
| 500 | Medical Sciences Notes         | 490 | Technology Notes      |



**COVER**—Indian villagers and a Peace Corps volunteer contemplate the results of a water project. Such small-scale efforts to provide portable water in remote areas are a key to the progress of developing nations. P. 502.

Subscription rate: 1 yr., \$6.50; 2 yrs., \$11.50; 3 yrs., \$16.50. Special trial offer for new subscribers only: 39 weeks, \$3.43. Single copy, 25 cents. No charge for foreign postage. Change of address: Three weeks' notice is required. Please state exactly how magazine is addressed. Include zip code.

Printed in U.S.A. Second class postage paid at Washington, D. C. Established as Science News Letter® in mimeograph form March 13, 1922. Title registered as trademark U. S. and Canadian Patent offices. Indexed in Reader's Guide to Periodical Literature, Abridged Guide, and the Engineering Index. Member of Audit Bureau of Circulation. UNSOLICITED MANUSCRIPTS will not be returned unless accompanied by a stamped, self-addressed envelope.

Published every Saturday by SCIENCE SERVICE, Inc., 1719 N St., N.W., Washington, D. C. 20036. North 7-2255. Cable Address: SCIENSERV.

## ADVERTISING

L. D. Young, Advertising Director, SCIENCE NEWS, 1719 N St., N.W., Washington, D. C. 20036, Phone 202-667-8945.

Advertising Representatives: SCRIPPS-HOWARD NEWSPAPERS. General Advertising Department: 200 Park Ave., New York, N.Y., TN 7-5000; 400 N. Michigan Ave., Chicago, Ill., SU 7-3355; 800 Broadway, Suite 1100, Cincinnati, Ohio, 721-1254; Suite 211, Braniff Building, Dallas, Tex., FL 7-3847; 908 E. Northland Tower, Southfield, Mich., 444-4595; 6363 Wilshire Blvd., Los Angeles, Calif., OL 3-0026; Room 1522, Philadelphia National Bank Building, Philadelphia, Pa., LO 3-6275; 100 California St., San Francisco, Calif., 989-5570; Suite 417, 3384 Peachtree Rd. S.E., Atlanta, Ga. 261-5171.